			linioai	parameters								
lodel(s):				A2WHPR32M/004								
ir-to-water heat pump:				YES								
Vater-to-water heat pump:				NO								
rine-to-water heat pump:			NO									
ow-temperature heat pump:				NO								
quipped with a supplementary heater:				NO								
leat pump combination heater:				YES								
eclared climate condition:				AVERAGE								
arameters are declared for medium-te	mperature applica	tion										
em	Symbol	Value	Unit	Item	Symbol	Value	Unit					
ated heat output (*)	Prated	4.4	kW	Seasonal space heating energy efficiency	ηs	129.5	%					
eclared capacity for heating for part load at i mperature Tj	ndoor temperature 20	°C and outdoo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for pa	art load at indoor						
j = -7°C	Pdh	3.89	kW	Tj = -7°C	COPd	2.17	-					
i = 2°C	Pdh	2.38	kW	Tj = 2°C	COPd	3.30	-					
i = 7°C	Pdh	2.94	kW	Tj = 7°C	COPd	4.41						
j = 12°C	Pdh	1.32	kW	Tj = 12°C	COPd	5.66	-					
i = bivalent temperature	Pdh	3.89	kW	Tj = bivalent temperature	COPd	2.17	-					
= operating limit	Pdh	3.42	kW	Tj = operating limit	COPd	1.91						
or air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$	COPd	-	-					
			NVV			-	-					
ivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C					
ycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-					
egradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C					
ower consumption in modes other than activ	ve mode			Supplementary heater								
ff mode	Poff	0.014	kW		_	0.00						
tandby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0.98	kW					
hermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical						
rankcase heater mode	Pck	0.000	kW									
ther items												
apacity control		variable		For air-to-water heat pumps: Rated air flow rate,	-	2770	m³/h					
				outdoors								
ound power level, indoors/outdoors	^L WA	-/55	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	_	m³/h					
Annual energy consumption	^Q НЕ	2744	kWh									
or heat pump combination heater:												
eclared load profile		L		Water heating energy efficiency nwh		124.3	%					
aily electricity consumption	Q _{clec}	3.868	kWh	Reference hot water temperature	-	46.64	°C					
nnual electricity consumption	AEC	823	kWh	DHW volume accounted for in test	-	200	L					
ontact details	RIELLO S.p.A	Via Ing. Pilade	e Riello 7 - Le	egnago - ITALY								

heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.

Model(s):				A2WHPR32M/004								
Air-to-water heat pump:				YES								
Water-to-water heat pump:				NO								
Brine-to-water heat pump:			NO									
Low-temperature heat pump:		NO										
Equipped with a supplementary heater:				NO								
Heat pump combination heater:		YES										
Declared climate condition:			COLDER									
Parameters are declared for medium-ter	mperature applica	tion.										
tem	Symbol	Value	Unit	Item	Symbol	Value	Uni					
Rated heat output (*)	Prated	3.4	kW	Seasonal space heating energy efficiency	ηs	102.1	%					
Declared capacity for heating for part load at in emperature Tj	door temperature 20	°C and outdo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for pa	rt load at indoor						
Γj = -7°C	Pdh	2.13	kW	Tj = -7°C	COPd	2.32	-					
Tj = 2°C	Pdh	1.28	kW	Tj = 2°C	COPd	2.99						
Fj = 7℃	Pdh	1.01	kW	Tj = 7°C	COPd	3.86	-					
Гј = 12°С	Pdh	1.36	kW	Tj = 12℃	COPd	6.28	-					
Fj = bivalent temperature	Pdh	2.74	kW	Tj = bivalent temperature	COPd	1.74	-					
j = operating limit	Pdh	1.64	kW	Tj = operating limit	COPd	1.02	<u> </u>					
For air-to-water heat pumps: Tj = -15° C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-					
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°(
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-						
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	51	°(
Power consumption in modes other than active	mode			Supplementary heater								
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup							
Standby mode	Psb	0.014	kW			1.72	kW					
Thermostat-off mode	Pto	0.024	kW	Type of energy input	E	lectrical						
Crankcase heater mode	Pck	0.000	kW									
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	_		m³/h					
Annual energy consumption	Q _{HE}	3159	kWh		_							
For heat pump combination heater:												
Declared load profile		L		Water heating energy efficiency nwh	-	124.3	%					
Daily electricity consumption	Q _{clec}	3.868	kWh	Reference hot water temperature	-	46.64	•0					
Annual electricity consumption	AEC	823	kWh	DHW volume accounted for in test	-	200	L					
Contact details	RIELLO S.p.A				•							

Model(s):				A2WHPR32M/004								
Air-to-water heat pump:				YES								
Vater-to-water heat pump:				NO								
Brine-to-water heat pump:				NO								
-ow-temperature heat pump:			NO									
Equipped with a supplementary heater:				NO								
Heat pump combination heater:				YES								
Declared climate condition:				WARMER								
Parameters are declared for medium-ter	mperature applicat	tion										
em	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	ηs	162.4	%					
Declared capacity for heating for part load at in emperature Tj	door temperature 20	°C and outdoo	r	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj								
'j = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-					
¯j = 2 ℃	Pdh	4.83	kW	Tj = 2°C	COPd	2.51	-					
Γj = 7°C	Pdh	3.22	kW	Tj = 7°C	COPd	3.68						
Γj = 12°C	Pdh	1.47	kW	Tj = 12°C	COPd	5.15	-					
j = bivalent temperature	Pdh	3.22	kW	Tj = bivalent temperature	COPd	3.68	-					
j = operating limit	Pdh	4.83	kW	Tj = operating limit	COPd	2.51	<u> </u>					
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	· ·					
Sivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-						
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	62	°C					
Power consumption in modes other than active	mode		1	Supplementary heater								
Dff mode	Poff	0.014	kW	Rated heat output (**)	Psup		1					
Standby mode	Psb	0.014	kW			0.18	kW					
hermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	_					
Crankcase heater mode	Pck	0.000	kW									
Dther items		<u></u>										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h					
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			m³/h					
Annual energy consumption	0 _{HE}	1621	kWh									
or heat pump combination heater:												
eclared load profile		L		Water heating energy efficiency nwh	-	124.3	%					
aily electricity consumption	Q _{clec}	3.868	kWh	Reference hot water temperature	-	46.64	•					
nnual electricity consumption	AEC	823	kWh	DHW volume accounted for in test	-	200	L					
Contact details	RIELLO S.p.A	- Via Ing. Pila	de Riello 7 -	Legnago - ITALY								

heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Model(s):				A2WHPR32M/006					
Air-to-water heat pump:				YES					
Water-to-water heat pump:				NO					
Brine-to-water heat pump:				NO					
Low-temperature heat pump:				NO					
Equipped with a supplementary heater	•			NO					
Heat pump combination heater:				YES					
Declared climate condition:				AVERAGE					
Parameters are declared for medium-to	emperature applic	ation							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	5.7	kW	Seasonal space heating energy efficiency	ηs	137.9	%		
Declared capacity for heating for part load at emperature Tj	indoor temperature 2	20 °C and outdo	C and outdoor Declared coefficient of performance or primary energy ratio for part load at temperature 20 °C and outdoor temperature Tj						
"j = −7°C	Pdh	5.04	kW	$T_j = -7^{\circ}C$	COPd	2.17	-		
Γj = 2°C	Pdh	3.12	kW	$T_j = 2^{\circ}C$	COPd	3.51	-		
Ti = 7°C	Pdh	2.08	kW	Tj = 7°C	COPd	4.54			
Ti = 12°C	Pdh	1.28	kW	Ti = 12℃	COPd	5.59			
	Pdh	5.04	kW	•	COPd		-		
j = bivalent temperature				Tj = bivalent temperature		2.17	-		
Fj = operating limit	Pdh	4.52	kW	Tj = operating limit For air-to-water heat pumps: Tj = -15° C	COPd COPd	1.91	•		
For air-to-water heat pumps: Tj = -15°C	Pdh	•	kW	,		-	-		
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C		
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than activ	ve mode			Supplementary heater					
Off mode	Poff	0.014	kW	Poted heat output (**)	Psup	1 10	kW		
Standby mode	Psb	0.014	kW	Rated heat output (**)	rsup	1.18	KVV		
Thermostat-off mode	Pto	0.024	kW	Type of energy input	-				
Crankcase heater mode	Pck	0.000	kW			lectrical			
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate,	_		m³/h		
		valiable		outdoors	-	2770			
Sound power level, indoors/outdoors		-/58	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger					
Annual energy consumption	Q _{HE}	3345	kWh		-	-	m³/h		
For heat pump combination heater:									
Declared load profile		L		Water beating aperal officiency, put		124.3	%		
Daily electricity consumption	Q _{clec}	L 3.868	kWh	Water heating energy efficiency nwh Reference hot water temperature	-				
Annual electricity consumption	AEC	823	kWh	DHW volume accounted for in test	-	46.64	0°		
					-	200	L		
Contact details	RIELLO S.p.	A Via Ing. Pila	ade Riello 7 -	Legnago - ITALY					

Model(s):				A2WHPR32M/006						
Air-to-water heat pump:				YES						
Nater-to-water heat pump:			NO							
Brine-to-water heat pump:				NO						
_ow-temperature heat pump:				NO						
Equipped with a supplementary heater:				NO						
leat pump combination heater:				YES						
Declared climate condition:				COLDER						
Parameters are declared for medium-te	mperature applica	tion.								
em	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output (*)	Prated	4.3	kW	Seasonal space heating energy efficiency	ηs	111.1	%			
Declared capacity for heating for part load at ir	ndoor temperature 20	°C and outdo	or	Declared coefficient of performance or primary en	ergy ratio for pa	art load at indoo	r			
emperature Tj				temperature 20 °C and outdoor temperature Tj			_			
Γj = -7°C	Pdh	2.70	kW	Tj = -7°C	COPd	2.46	-			
Гј = 2°С	Pdh	1.60	kW	Tj = 2°C	COPd	3.36	-			
ſj = 7°C	Pdh	1.02	kW	Tj = 7°C	COPd	3.94	-			
Гј = 12°С	Pdh	1.37	kW	Tj = 12°C	COPd	6.35	-			
j = bivalent temperature	Pdh	3.47	kW	Tj = bivalent temperature	COPd	1.86	-			
j = operating limit	Pdh	2.09	kW	Tj = operating limit	COPd	1.13	-			
For air-to-water heat pumps: $Tj = -15^{\circ}C$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-			
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C			
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·			
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	51	°C			
Power consumption in modes other than active	e mode			Supplementary heater						
Off mode	Poff	0.014	kW							
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	5.10	kW			
Thermostat-off mode	Pto	0.024	kW	Type of energy input						
Crankcase heater mode	Pck	0.000	kW			Electrical				
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h			
Sound power level, indoors/outdoors	-wa	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger						
Annual energy consumption	Q _{HE}	3681	kWh				m³/h			
or heat pump combination heater:										
eclared load profile		L		Water heating energy efficiency nwh	· ·	124.3	%			
Daily electricity consumption	Q _{clec}	3.868	kWh	Reference hot water temperature	-	46.64	°C			
Annual electricity consumption	AEC	823	kWh	DHW volume accounted for in test		200	L			
Contact details	RIELLO S.p.A	Via Ing. Pila	ade Riello 7 -	Legnago - ITALY						

Model(s):				A2WHPR32M/006					
Air-to-water heat pump:				YES					
Water-to-water heat pump:				NO					
Brine-to-water heat pump:				NO					
Low-temperature heat pump:				NO					
Equipped with a supplementary heater:				NO					
Heat pump combination heater:				YES					
Declared climate condition:				WARMER					
Parameters are declared for medium-ter	nperature applica	ition.							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	5.1	kW	Seasonal space heating energy efficiency	ηs	164.7	%		
Declared capacity for heating for part load at inc	door temperature 20	°C and outdo	or	Declared coefficient of performance or primary en	ergy ratio for pa	art load at indoo	r		
emperature Tj				temperature 20 °C and outdoor temperature Tj					
Tj = -7°C	Pdh	-	kW	Tj = −7°C	COPd	-	-		
Tj = 2°C	Pdh	5.02	kW	Tj = 2°C	COPd	2.48	-		
Tj = 7°C	Pdh	3.31	kW	Tj = 7°C	COPd	3.67	-		
Tj = 12°C	Pdh	1.60	kW	Tj = 12°C	COPd	5.29	-		
Tj = bivalent temperature	Pdh	3.31	kW	Tj = bivalent temperature	COPd	3.67	-		
Tj = operating limit	Pdh	5.02	kW	Tj = operating limit	COPd	2.48	-		
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-		
Bivalent temperature	Ты	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C		
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·		
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	62	°C		
Power consumption in modes other than active	mode	•		Supplementary heater					
Off mode	Poff	0.014	kW						
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0	kW		
Thermostat-off mode	Pto	0.024	kW						
Crankcase heater mode	Pck	0.000	kW	Type of energy input		Electrical			
Other items							_		
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h		
Sound power level, indoors/outdoors	Lwa	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	_	_	m³/h		
Annual energy consumption	^о не	1640	kWh						
For heat pump combination heater:									
Declared load profile				Water heating energy efficiency nwh		124.3	%		
Daily electricity consumption	0	L 3.868	kWh		-		_		
Annual electricity consumption	Q _{clec}	823	kWh	Reference hot water temperature DHW volume accounted for in test	-	46.64	°C		
	AEC	023	NVVII	Drive volume accounted for in test	-	200	L		
Contact details	RIELLO S.p.A	Via Ing. Pila	ade Riello 7 -	Legnago - ITALY					

Model(s):				A2WHPR32M/008					
Air-to-water heat pump:				YES					
Nater-to-water heat pump:				NO					
Brine-to-water heat pump:				NO					
_ow-temperature heat pump:				NO					
Equipped with a supplementary heater:				NO					
Heat pump combination heater:				YES					
Declared climate condition:				AVERAGE					
Parameters are declared for medium-te	emperature applic	ation.							
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	ηs	131.5	%		
Declared capacity for heating for part load at in		0 °C and outdoo	or	Declared coefficient of performance or primary en					
emperature Tj				temperature 20 °C and outdoor temperature Tj	orgy ratio for part				
Tj = -7°C	Pdh	5.84	kW	Tj = -7°C	COPd	2.16	-		
Tj = 2°C	Pdh	3.75	kW	Tj = 2°C	COPd	3.30	-		
Tj = 7°C	Pdh	2.42	kW	Tj = 7℃	COPd	4.34	-		
Tj = 12°C	Pdh	1.39	kW		COPd	5.33	-		
Ti = bivalent temperature	Pdh	5.84	kW	Tj = bivalent temperature	COPd	2.16	-		
Γi = operating limit	Pdh	4.90	kW	Tj = operating limit	COPd	1.84	-		
For air-to-water heat pumps: $Tj = -15^{\circ}C$	Pdh	-	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$	COPd	-	-		
Bivalent temperature	Tbiv			For air-to-water heat pumps: Operation limit	TOL		°C		
		-7	°C	temperature	-	-10			
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-		
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C		
Power consumption in modes other than activ	e mode			Supplementary heater					
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	1.69	kW		
Standby mode	Psb	0.014	kW		Fsup	1.09	KVV		
Thermostat-off mode	Pto	0.024	kW	Type of energy input	-	tui I			
Crankcase heater mode	Pck	0.000	kW		E	ectrical			
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h		
Sound power level, indoors/outdoors		-/59	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		<u>.</u>	m³/h		
Annual energy consumption	Q _{HE}	4056	kWh						
For heat pump combination heater:									
Declared load profile		XL		Water heating energy efficiency nwh	-	139	%		
Daily electricity consumption	Q _{clec}	5.622	kWh	Reference hot water temperature		46.07	°C		
Annual electricity consumption	AEC	1206	kWh	DHW volume accounted for in test	-	300	L		
Contact datails									
Contact details	RIELLO S.p.	A Via Ing. Pila	de Riello 7 -	Legnago - ITALY					

Model(s):				A2WHPR32M/008			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				YES			
Declared climate condition:				COLDER			
Parameters are declared for medium-te	emperature applic	ation.					
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.8	kW	Seasonal space heating energy efficiency	ηs	112.0	%
Declared capacity for heating for part load at i	ndoor temperature 2	20 °C and outdo	or	Declared coefficient of performance or primary en	ergy ratio for part	load at indoor	r
emperature Tj				temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	3.86	kW	Tj = -7°C	COPd	2.48	-
Tj = 2°C	Pdh	2.21	kW	Tj = 2°C	COPd	3.35	-
Tj = 7°C	Pdh	1.44	kW	Tj = 7°C	COPd	4.11	-
Гј = 12°С	Pdh	1.46	kW	Tj = 12°C	COPd	5.92	-
Γj = bivalent temperature	Pdh	4.71	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operating limit	Pdh	2.80	kW	Tj = operating limit	COPd	1.22	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than activ	e mode			Supplementary heater			
Off mode	Poff	0.014	kW		_		
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	2.97	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input			
Crankcase heater mode	Pck	0.000	kW		E	lectrical	
	Į						
Other items							_
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	^L WA		dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			m³/h
Annual energy consumption	Q _{HE}	4950	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency nwh	<u> </u>	139	%
Daily electricity consumption	Q _{clec}	5.622	kWh	Reference hot water temperature			
Annual electricity consumption	AEC	1206	kWh	DHW volume accounted for in test		46.07 300	°C L
						000	
Contact details	RIELLO S.p.	.A Via Ing. Pila	ade Riello 7 -	- Legnago - ITALY			

Model(s):				A2WHPR32M/008								
Air-to-water heat pump:				YES								
Vater-to-water heat pump:			NO									
Brine-to-water heat pump:		NO										
ow-temperature heat pump:			NO									
Equipped with a supplementary heater:		NO										
leat pump combination heater:				YES								
Declared climate condition:				WARMER								
Parameters are declared for medium-ter	perature applica	tion.										
em	Symbol	Value	Unit	Item	Symbol	Value	Uni					
ated heat output (*)	Prated	7.6	kW	Seasonal space heating energy efficiency	ηs	175.8	%					
eclared capacity for heating for part load at ind emperature Tj	oor temperature 20	°C and outdoo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for pa	art load at indoo	r					
j = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-					
j = 2°C	Pdh	7.55	kW	Tj = 2°C	COPd	2.59	-					
⁻j = 7°C	Pdh	4.86	kW	Tj = 7°C	COPd	3.92	-					
j̃ = 12℃	Pdh	2.31	kW	Tj = 12°C	COPd	5.55	-					
j = bivalent temperature	Pdh	4.86	kW	Tj = bivalent temperature	COPd	3.92	<u> </u>					
j = operating limit	Pdh	7.55	kW	Tj = operating limit	COPd	2.59	-					
for air-to-water heat pumps: Tj = -15° C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-					
ivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°(
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	•					
Pegradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	62	°(
ower consumption in modes other than active	mode			Supplementary heater			_					
Off mode	Poff	0.014	kW									
tandby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0	kW					
hermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical						
Crankcase heater mode	Pck	0.000	kW									
ther items	•											
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h					
ound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h					
Annual energy consumption	^Q НЕ	2259	kWh									
or heat pump combination heater:					-							
eclared load profile		XL		Water heating energy efficiency nwh	-	139						
aily electricity consumption	Qclec	5.622	kWh	Reference hot water temperature		46.07	•					
nnual electricity consumption	AEC	1206	kWh	DHW volume accounted for in test	-	300	L					
contact details	RIELLO S.p.A	Via Ing. Pila	de Riello 7 -	Legnago - ITALY								

Model(s):				A2WHPR32M/010								
Air-to-water heat pump:				YES								
Water-to-water heat pump:			NO									
Brine-to-water heat pump:		NO										
Low-temperature heat pump:		NO										
Equipped with a supplementary heater:		NO										
leat pump combination heater:				YES								
Declared climate condition:				AVERAGE								
Parameters are declared for medium-ter	nperature applica	tion.										
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	7.7	kW	Seasonal space heating energy efficiency	ηs	136.6	%					
Declared capacity for heating for part load at inc emperature Tj	door temperature 20	20 °C and outdoor Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj										
rj = −7°C	Pdh	6.78	kW	Tj = -7°C	COPd	2.24	-					
Γj = 2°C	Pdh	4.28	kW	Tj = 2°C	COPd	3.42	-					
ſj = 7°C	Pdh	2.77	kW	Tj = 7°C	COPd	4.52	-					
Γj = 12°C	Pdh	1.58	kW	Tj = 12°C	COPd	5.68	-					
j = bivalent temperature	Pdh	6.78	kW	Tj = bivalent temperature	COPd	2.24	-					
j = operating limit	Pdh	5.38	kW	Tj = operating limit	COPd	1.83	-					
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-					
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C					
Power consumption in modes other than active	mode			Supplementary heater								
Off mode	Poff	0.014	kW									
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	2.29	kW					
Thermostat-off mode	Pto	0.024	kW	Type of energy input	1	Electrical						
Crankcase heater mode	Pck	0.000	kW									
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h					
Sound power level, indoors/outdoors	Чwа	-/60	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h					
Annual energy consumption	Q _{HE}	4539	kWh									
or heat pump combination heater:												
eclared load profile		XL		Water heating energy efficiency nwh	-	139	%					
Paily electricity consumption	Q _{clec}	5.622	kWh	Reference hot water temperature	-	46.07	°C					
Annual electricity consumption	AEC	1206	kWh	DHW volume accounted for in test	-	300	L					
Contact details	RIELLO S.p.A	Via Ing. Pila	de Riello 7 -	Legnago - ITALY								
*) For boot nump appear bootors and bo	at nump combinat	tion heaters	the rated h	neat output Prated is equal to the design load t	for beating Po	lesignh and t	he rater					

Model(s):				A2WHPR32M/010					
Air-to-water heat pump:				YES					
Vater-to-water heat pump:				NO					
Brine-to-water heat pump:				NO					
ow-temperature heat pump:				NO					
Equipped with a supplementary heater:				NO					
leat pump combination heater:				YES					
Declared climate condition:				COLDER					
Parameters are declared for medium-tempe	erature applicat	tion.							
em	Symbol	Value	Unit	Item	Symbol	Value	Un		
ated heat output (*)	Prated	6.7	kW	Seasonal space heating energy efficiency	ηs	116.4	%		
l eclared capacity for heating for part load at indoo emperature Tj	r temperature 20	°C and outdoo	br	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Ti	ergy ratio for pa	rt load at indoor			
ïj = −7°C	Pdh	4.27	kW	Ti = -7° C	COPd	2.54			
j = 2℃	Pdh	2.57	kW	Tj = 2°C	COPd	3.51	· ·		
j = 7°C	Pdh	1.65	kW	Tj = 2 ℃ Tj = 7°C	COPd	4.37			
j = 12℃	Pdh	1.05	kW	Tj = 12°C	COPd	5.96	-		
				·			-		
j = bivalent temperature	Pdh	5.47	kW	Tj = bivalent temperature	COPd	2.00	-		
j = operating limit	Pdh	2.80	kW	Tj = operating limit	COPd	1.22			
or air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-		
ivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C		
cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	·		
egradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	51	°C		
ower consumption in modes other than active mo	ode			Supplementary heater					
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	3.91	kW		
Standby mode	Psb	0.014	kW		r sup	5.91	NVV		
hermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical			
Crankcase heater mode	Pck	0.000	kW						
Other items									
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h		
ound power level, indoors/outdoors	Чwа	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	_	<u> </u>	m³/h		
Annual energy consumption	^о не	5540	kWh						
or heat pump combination heater:									
eclared load profile		XL		Water heating energy efficiency nwh	-	139	%		
aily electricity consumption	Q _{clec}	5.622	kWh	Reference hot water temperature	-	46.07	°C		
nnual electricity consumption	AEC	1206	kWh	DHW volume accounted for in test	-	300	L		
Contact details	RIELLO S.p.A	Via Ing. Pila	de Riello 7 - I	Legnago - ITALY					

Model(s):				A2WHPR32M/010								
Air-to-water heat pump:				YES								
Nater-to-water heat pump:			NO									
Brine-to-water heat pump:		NO										
ow-temperature heat pump:			NO									
Equipped with a supplementary heater:		NO										
leat pump combination heater:			YES									
Declared climate condition:				WARMER								
Parameters are declared for medium-terr	perature applica	tion.										
em	Symbol	Value	Unit	Item	Symbol	Value	Uni					
ated heat output (*)	Prated	8.6	kW	Seasonal space heating energy efficiency	ηs	180.3	%					
Declared capacity for heating for part load at ind emperature Tj	oor temperature 20	°C and outdoo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for pa	art load at indoo	r					
j̃ = -7°℃	Pdh	-	kW	Tj = −7°C	COPd	-	-					
j = 2℃	Pdh	8.06	kW	Tj = 2°C	COPd	2.59	-					
⁻j = 7°C	Pdh	5.54	kW	Tj = 7°C	COPd	4.10	-					
j̈́ = 12℃	Pdh	2.53	kW	Tj = 12°C	COPd	5.82	-					
j = bivalent temperature	Pdh	5.54	kW	Tj = bivalent temperature	COPd	4.10	-					
j = operating limit	Pdh	8.15	kW	Tj = operating limit	COPd	2.61	-					
for air-to-water heat pumps: Tj = -15 $^{\circ}$ C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	· ·					
livalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C					
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	·					
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	62	°C					
ower consumption in modes other than active	mode			Supplementary heater								
Off mode	Poff	0.014	kW									
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0.48	kW					
hermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical						
Crankcase heater mode	Pck	0.000	kW									
Other items												
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/ł					
Sound power level, indoors/outdoors	^L WA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h					
Annual energy consumption	Q _{HE}	2516	kWh									
or heat pump combination heater:												
eclared load profile		XL		Water heating energy efficiency nwh	-	139	%					
aily electricity consumption	Q _{clec}	5.622	kWh	Reference hot water temperature	-	46.07	°C					
nnual electricity consumption	AEC	1206	kWh	DHW volume accounted for in test		300	L					
contact details	RIELLO S.p.A	Via Ing. Pila	ide Riello 7 -	Legnago - ITALY								

Model(s):				A2WHPR32M/012			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				YES			
Declared climate condition:				AVERAGE			
Parameters are declared for medium-tem	perature applica	tion.					
tem	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	11.6	kW	Seasonal space heating energy efficiency	ηs	135.1	%
Declared capacity for heating for part load at ind emperature Tj	oor temperature 20	°C and outdoo)r	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for pa	art load at indoo	r
[j = -7°C	Pdh	10.24	kW	Tj = -7°C	COPd	2.01	-
Γj = 2°C	Pdh	6.52	kW	Tj = 2°C	COPd	3.44	-
Γj = 7°C	Pdh	4.36	kW	Tj = 7°C	COPd	4.59	-
Γj = 12°C	Pdh	3.29	kW		COPd	6.05	-
j = bivalent temperature	Pdh	10.24	kW	Tj = bivalent temperature	COPd	2.01	<u> </u>
j = operating limit	Pdh	9.10	kW	 Tj = operating limit	COPd	1.79	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active	mode			Supplementary heater			
Off mode	Poff	0.014	kW		_		
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	1.23	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input		Electrical	-
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	Чw а	-/65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q _{HE}	6927	kWh		ļ		
For heat pump combination heater:				-			
Declared load profile		XL		Water heating energy efficiency ηwh		130	%
Daily electricity consumption	Q _{clec}	6.062	kWh	Reference hot water temperature	-	47.15	°C
Annual electricity consumption	AEC	1288	kWh	DHW volume accounted for in test	-	300	L
Contact details	RIELLO S.p.A	Via Ing. Pila	de Riello 7 -	Legnago - ITALY			

Model(s):				A2WHPR32M/012			
Model(s): Air-to-water heat pump:				AZWHPR32M/01Z YES			
Water-to-water heat pump:				NO			
				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:							
Heat pump combination heater:				YES			
Declared climate condition:		tion		COLDER			
Parameters are declared for medium-te	mperature applica	tion.					
em	Symbol	Value	Unit	Item	Symbol	Value	Un
Rated heat output (*)	Prated	10.3	kW	Seasonal space heating energy efficiency	ηs	117.8	%
Declared capacity for heating for part load at in	ndoor temperature 20	°C and outdo	or	Declared coefficient of performance or primary en		rt load at indoor	
emperature Tj	·			temperature 20 °C and outdoor temperature Tj			
j = −7°C	Pdh	6.63	kW	Tj = -7°C	COPd	2.63	-
Γj = 2°C	Pdh	4.06	kW	Tj = 2°C	COPd	3.60	-
Γj = 7°C	Pdh	2.78	kW	Tj = 7°C	COPd	4.54	-
Гј = 12°С	Pdh	3.33	kW	Tj = 12°C	COPd	6.25	-
j = bivalent temperature	Pdh	8.41	kW	Tj = bivalent temperature	COPd	1.84	-
j = operating limit	Pdh	4.19	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15° C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active	e mode			Supplementary heater			
Off mode	Poff	0.014	kW				
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	6.11	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate,			m³/ł
		outdoors				4060	11171
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q _{HE}	8419	kWh				
For heat pump combination heater:			-				
eclared load profile		XL		Water heating energy efficiency nwh		130	%
Daily electricity consumption	Qclec	AL 6.062	kWh	Reference hot water temperature	-		-
Annual electricity consumption	AEC	1288	kWh	DHW volume accounted for in test	-	47.15	°C
	AEC	1200	NVVII	Drive volume accounted for intrest	-	300	L
Contact details	RIELLO S.p.A	Via Ing. Pila	ade Riello 7 -	Legnago - ITALY			

Model(s):				A2WHPR32M/012			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				YES			
Declared climate condition:				WARMER			
Parameters are declared for medium-te	emperature applica	tion.					
tem	Symbol	Value	Unit	Item	Symbol	Value	Uni
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	ηs	174.0	%
Declared capacity for heating for part load at i	ndoor temperature 20	°C and outdoo	or	Declared coefficient of performance or primary en	ergy ratio for part	load at indoor	
emperature Tj				temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	12.07	kW	Tj = 2℃	COPd	2.31	-
Tj = 7°C	Pdh	8.04	kW	Tj = 7°C	COPd	3.86	-
Tj = 12°C	Pdh	3.75	kW	Tj = 12°C	COPd	5.70	-
Γj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd	3.86	-
Γj = operating limit	Pdh	12.07	kW	Tj = operating limit	COPd	2.31	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	Wtol	62	°C
Power consumption in modes other than activ	e mode			Supplementary heater			
Off mode	Poff	0.014	kW				
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0.43	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input	Electrical		
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			m³/h
Annual energy consumption	Q _{HE}	3776	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency ηwh	-	130	%
Daily electricity consumption	Q _{clec}	6.062	kWh	Reference hot water temperature	-	47.15	°C
Annual electricity consumption	AEC	1288	kWh	DHW volume accounted for in test	-	300	L
Contact details	RIELLO S.p.A	Via Ing. Pila	ade Riello 7 -	Legnago - ITALY			

Model(s):				A2WHPR32M/014			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
_ow-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				YES			
Declared climate condition:				AVERAGE			
Parameters are declared for medium-te	mperature applic	ation.					
tem	Symbol	Value	Unit	Item	Symbol	Value	Un
Rated heat output (*)	Prated	12.08	3 kW	Seasonal space heating energy efficiency	ηs	135.6	%
Declared capacity for heating for part load at in emperature Tj	ndoor temperature 2	0 °C and outdoo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for part	load at indoor	r
li = −7°C	Pdh	10.68	kW	Ti = -7° C	COPd	2.01	
Tj = 2℃	Pdh	6.86	kW	$T_i = 2^{\circ}C$	COPd	3.43	
Tj = 7℃				$T_{i} = 7^{\circ}C$	COPd		
	Pdh	4.63	kW	·		4.66	-
Гј = 12°С	Pdh	3.31	kW	Tj = 12°C	COPd	6.13	-
j = bivalent temperature	Pdh	10.68	kW	Tj = bivalent temperature	COPd	2.01	-
i = operating limit	Pdh	9.19	kW	Tj = operating limit	COPd	1.76	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than activ	e mode			Supplementary heater			
Off mode	Poff	0.014	kW	Doted heat a start (**)	D	4.40	
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	1.40	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input	El	ectrical	
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate,	-		m³/
				outdoors		4060	
Sound power level, indoors/outdoors	^L WA	-/65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Annual energy consumption	Q _{HE}	7202	kWh	bille of water now rate, outdoor near exchanger	-	-	m³/h
	n.						
or heat pump combination heater:							
eclared load profile		XL		Water heating energy efficiency ηwh	-	130	%
Daily electricity consumption	Qclec	6.026	kWh	Reference hot water temperature	-	47.15	°C
Annual electricity consumption	AEC	1288	kWh	DHW volume accounted for in test	-	300	L
	RIELLO S.p.	A Via Ing. Pila	de Riello 7 -	Legnago - ITALY			
Contact details							

		Tec	hnical	parameters			
Model(s):				A2WHPR32M/014			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				YES			
Declared climate condition:				COLDER			
Parameters are declared for medium-ter	nnerature annlic	ation					
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.0	kW	Seasonal space heating energy efficiency	ηs	118.9	%
Declared capacity for heating for part load at in emperature Tj	door temperature 2	20 °C and outdo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for par	t load at indoor	
Tj = -7°C	Pdh	6.89	kW	Tj = -7°C	COPd	2.66	-
Гј = 2°С	Pdh	4.32	kW	Tj = 2℃	COPd	3.66	-
Tj = 7°C	Pdh	3.06	kW	Tj = 7°C	COPd	4.72	-
Tj = 12°C	Pdh	3.33	kW	Tj = 12℃	COPd	6.25	-
- □ = bivalent temperature	Pdh	8.94	kW	Tj = bivalent temperature	COPd	1.79	-
j = operating limit	Pdh	4.20	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Ты	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active	mode			Supplementary heater			
Off mode	Poff	0.014	kW				
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	6.80	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input Electrical			
Crankcase heater mode	Pck	0.000	kW				
Other items		•					
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m³/h
Sound power level, indoors/outdoors	- ^L WA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	m³/h
Annual energy consumption	^Q НЕ	8866	kWh				
For heat pump combination heater:							
eclared load profile		XL		Water heating energy efficiency	^η wh	130	%
Daily electricity consumption	Qclec	6.026	kWh	Daily fuel consumption	Q _{fuel}	47.15	°C
Annual electricity consumption	AEC	1288	kWh	Annual fuel consumption	AFC	300	L
Contact details	RIELLO S.p.	A Via Ing. Pila	ade Riello 7 - I	Legnago - ITALY			
(*) For heat pump space heaters and he heat output of a supplementary heater F (**) If Cdh is not determined by measure	sup is equal to t	he supplemer	ntary capaci		for heating Pde	esignh, and t	he rated

Model(s):				A2WHPR32M/014			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
_ow-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				YES			
Declared climate condition:				WARMER			
Parameters are declared for medium-te	mperature applic	ation.					
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.7	kW	Seasonal space heating energy efficiency	ηs	176.5	%
Declared capacity for heating for part load at in emperature Tj	ndoor temperature 2	0 °C and outdoo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for part	load at indoor	•
j̈ = -7℃	Pdh	-	kW	Tj = -7°C	COPd	-	-
[j = 2°C	Pdh	13.04	kW	Tj = 2°C	COPd	2.20	-
Fj = 7℃	Pdh	8.83	kW	Tj = 7°C	COPd	3.91	-
Гј = 12°С	Pdh	4.08	kW		COPd	5.90	-
j = bivalent temperature	Pdh	8.83	kW	Tj = bivalent temperature	COPd	3.91	-
i = operating limit	Pdh	13.04	kW	Ti = operating limit	COPd	2.20	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	<u> </u>
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than activ	e mode			Supplementary heater			
Dff mode	Poff	0.014	kW				
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0.66	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input	EI	ectrical	
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate,	_		m³/h
		Valiable		outdoors	-	4060	
Sound power level, indoors/outdoors		-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q _{HE}	4088	kWh				
or heat pump combination heater:	÷	•		·	-		
Declared load profile		XL		Water heating energy efficiency	ⁿ wh	130	%
Daily electricity consumption	Qclec	6.026	kWh	Daily fuel consumption	Q fuel	47.15	°C
nnual electricity consumption	AEC	1288	kWh	Annual fuel consumption	AFC	300	L
Contact details	RIELLO S.p.	A Via Ing. Pila	ade Riello 7 -	Legnago - ITALY			
				neat output Prated is equal to the design load t			

		Iec	mical	parameters			
Model(s):				A2WHPR32M/016			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				YES			
Declared climate condition:				AVERAGE			
Parameters are declared for medium-ter	nperature applic	ation.					
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	ηs	133.3	%
Declared capacity for heating for part load at in emperature Tj	door temperature 2	0 °C and outdoo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for part	load at indoor	
Tj = −7°C	Pdh	11.52	kW	Tj = −7°C	COPd	1.99	-
Tj = 2°C	Pdh	7.18	kW	Tj = 2°C	COPd	3.34	-
Tj = 7°C	Pdh	4.67	kW		COPd	4.61	-
Tj = 12°C	Pdh	3.31	kW	Tj = 12°C	COPd	6.07	· ·
Γi = bivalent temperature	Pdh	11.52	kW	Tj = bivalent temperature	COPd	1.99	· ·
Γi = operating limit	Pdh	10.33	kW	Tj = operating limit	COPd	1.80	· ·
For air-to-water heat pumps: $Tj = -15^{\circ}C$	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	· ·
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active	mode			Supplementary heater			
Off mode	Poff	0.014	kW		<u> </u>		-
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	2.68	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input	E	ectrical	
Crankcase heater mode	Pck	0.000	kW				
Other items	•						
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h
Sound power level, indoors/outdoors	^L WA	-/68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q _{HE}	7895	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	^η wh	130	%
Daily electricity consumption	Qclec	6.026	kWh	Daily fuel consumption	Q fuel	47.15	°C
Annual electricity consumption	AEC	1288	kWh	Annual fuel consumption	AFC	300	L
Contact details	RIELLO S.p.	A Via Ing. Pila	ade Riello 7 -	Legnago - ITALY			
(*) For heat pump space heaters and he heat output of a supplementary heater P (**) If Cdh is not determined by measure	sup is equal to the	he supplemer	ntary capac		for heating Pde	esignh, and tl	he rated

YES Visit Notation Protection of the proton of the p	Model(s):				A2WHPR32M/016							
NO NO Series - Second space frame of the supplementary heater: NO Colspan="2">Colspan="2" Colspan="2">Colspan="2" C												
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Parameters are declared for medium-temperature application. and the same declared for medium-temperature application. and the declared for medium-temperature application. tade heat output (') Prated 11.8 KV tate heat output (') Prate 11.8 KV Declared coefficient of performance or primary energy mito for part load at indoor temperature 20 °C and outdoor temperature 20 °C and	• •											
Image: constraint of the set of the se			('		COLDER							
India deal output (*)ProtectProtectSeasonal space heating energy efficiencyrs12.18CDeclared capachy for heating for part load at indoor temperature 20 * C and outdoorSeasonal space heating energy efficiencyrs12.18CT = 7*CPdh7.84KWT = 2*CPdh2.57KWT = 7*CPdh2.57KWT = 7*CPdh2.57KWT = 12*CPdh2.57KWT = operating limitPdh3.33KWT = operating limitPdh3.27KWT = operating limitCOPd6.28TT = operating limitPdh5.21KWT = operating limitCOPd6.29TSource theoretureTw-15*CSource theoretureTw-15*CStrade to coefficient (*)C.a.0.9-Source to cost print in modes other than active modePen0.014KWTheoreture to cost print in modes other than active modePen0.014KWStrade to fill on the test prints?Pen0.024KWThe denergy inputElectrical*4650nStrade tof flow date reade prints?	Parameters are declared for medium-te	mperature applica	tion.									
And heat output (*)ProtectProtectSeasonal space heating energy efficiencyrs12.18CDeclared cagachy for heating for part load at indoor temperature 20 *C and outdoorSeasonal space heating energy efficiencyrs12.18CT = 7*CPeh7.84KWT = 7*CPeh7.84KWT = 7*CPeh2.87KWT = 7*CPeh2.87KWT = 7*CPeh2.87KWT = 7*CPeh2.87KWT = 1*2*CPeh3.43KWT = operating limitPeh9.81KWT = operating limitPeh9.81KWT = operating limitPeh9.81KWT = operating limitPeh9.81KWT = operating limitPeh0.81KWT = operating limitCOPd2.821T = operating limitPeh0.01KWFor air-to-water heat pumps: Tj = -15*CCOPd-Standow modePen0.014KWPer doctoredVPen0.014Standow modePen0.014KWThereores/outplotPen0.024KWThereores/outplotPen0.024KWThereores/outplotPen0.024KWStandow modePen0.024KWThereores/outplotPen0.024KWThereores/outplotPen0.024KWStandow modePen0.024 <t< td=""><td>em</td><td>Symbol</td><td>Value</td><td>Unit</td><td>Item</td><td>Symbol</td><td>Value</td><td>Un</td></t<>	em	Symbol	Value	Unit	Item	Symbol	Value	Un				
Image: constraint of the part load at indoor temperature 20°C and outdoor temperature 31 Image: constraint of the part load at indoor temperature 20°C and outdoor temperature 31 Image: constraint of temperature 30°C and outdoor temperature 31°C Image: constraint of temperature 31°C Peh 7.64 KW Image: constraint of temperature 30°C and outdoor temperature 31°C COPd 2.86 Image: constraint of temperature 30°C and outdoor temperature 31°C Image: constraint of temperature 30°C and outdoor temperature 31°C COPd 4.83 Image: constraint of temperature 30°C and outdoor temperature 30°C and and temperature 30°C								%				
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TryPdh2.97KWTTCOPd4.81TTPdh3.43KWTTCOPd6.29KTExample of the string intPdh3.43KWTTExample of the string intCOPd1.86KTFor air-fo-water heat pumps: T] = -15°CPdh-KWFor air-fo-water heat pumps: T] = -15°CCOPd1.23KTor air-fo-water heat pumps: T] = -15°CPdh-KWFor air-fo-water heat pumps: T] = -15°CCOPd1.23KSyciling interval capacity for heatingPooh-KWFor air-fo-water heat pumps: T] = -15°CCOPd-CSyciling interval capacity for heatingPooh-KWFor air-fo-water heat pumps: T] = -15°CCOPd-CVower consumption in modes other than active modePoin0.014KWKWSupplementary heaterKWSupplementary heaterKWThe remostat-off modePoin0.014KWType of energy inputElectricalKWTop of air-fo-water heat pumps: Rated air flow rate, outdoors1/1 yee of air-fo-water heat pumps: Rated air flow rate, outdoor heat exchangerm'n'hSupplementary heaterFor air-fo-water heat pumps: Rated air flow rate, outdoor heat exchangerm'n'h1.30CSupplementary heaterFor air-fo-water heat pumps: Rated air flow rate, outdoor heat exchangerm'n'hfor air-fo-water heat pumps: Rated air flow rate, outdoor heat exchangerm'n'hSupplementary heater	ij = -7°C	Pdh	7.64	kW	Tj = -7°C	COPd	2.65	-				
Image: stand set of the	j = 2°C	Pdh	4.42	kW	Tj = 2°C	COPd	3.79	-				
i bixelent temperaturePdh9.61kWi = bixelent temperaturePdh5.21kWi = operating limitPdh5.21kWi = operating limitPdh5.21kWi = operating limitCOPd1.23i = operating limit temperatureCOPd0.24i = operating limit temperatureCOPd0.24i = operating limit temperatureWro.S1i = operating limit temperaturePoint <td< td=""><td></td><td>Pdh</td><td>2.97</td><td>kW</td><td>Tj = 7°C</td><td>COPd</td><td>4.81</td><td>-</td></td<>		Pdh	2.97	kW	Tj = 7°C	COPd	4.81	-				
I biolatent temperaturePdh9.61KWI = biolatent temperaturePdh5.21KWI = operating limitPdh5.21KWI = operating limitPdh5.21KWI = operating limitPdh5.21KWFor air-to-water heat pumps: Tj = -15°CCOPd1.23Sivelent temperatureTow-15°CSivelent temperatureTow-15°CCycling interval capacity for heatingPosth-Auge consumption in modes other than active modeFor air-to-water heat pumps: Operation limitTOL-22Sivelent (**)Con0.9-Attackase heater modePath0.014KWMemodes other than active modePath0.014KWThermostat-off modePath0.014KWAttackase heater modePath0.014KWThermostat-off modePath0.000KWType of energy inputElectricalCapacity controlImage and path and	[j = 12℃	Pdh	3.43	kW	Tj = 12°C	COPd	6.29	-				
Image: product of the set o	i = bivalent temperature	Pdh	9.61	kW		COPd	1.86					
ConstructionPeth.KWFor air-to-water heat pumps: Tj = -15°CCOPd.Sydial interval capacity for heating P_{cych} .KWSydial interval capacity for heating P_{cych} .KWDegradation co-efficient (*)Coh0.9.Vewer consumption in modes other than active mode V_{ch} V_{ch} V_{ch} Minde P_{ab} 0.014KWMinde P_{ab} 0.014KWNames table P_{ab} 0.014KWThere items P_{ab} 0.014KWTapacity control P_{ab} 0.000KWThere items P_{ab} 0.000KWThe items P_{ab} 0.000KWThe items P_{ab} 0.000KWThere items P_{ab}	· .							-				
Sivalent temperatureThivImage: sector of the sector	,		-									
Cycling interval capacity for heating Poych -15 *C temperature		Thiy						°C				
Degradation co-efficient (**) Cdn 0.9 Performance Performance Performance Supplementary heater Supplementary heater Diff mode Performance Performance No.014 KW Standby mode Performance Performance No.014 KW Standby mode Performance No.014 KW Thermostat-off mode Performance No.0024 KW Crankcase heater mode Performance No.000 KW Differ items Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoor heat exchanger - 4650 n Sound power level, indoors/outdoors ¹ / _{WA} - dB For air-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - 4650 n Annual energy consumption ° - dB Mater heating energy efficiency n/wh 130 0 Daily lectricity consumption AEC 1288 KWh Null fuel consumption Art. 300 Null fuel consumption Art. 300 Null fuel consumption Art. 300 Null fuel con		1010	-15	°C		102	-22	Ŭ				
Supplementary heater Other consumption in modes other than active mode Port 0.014 kW Standby mode Pab 0.014 kW Standby mode Pab 0.014 kW Thermostat-off mode Por 0.024 kW Crankcase heater mode Por 0.000 kW Other items Por 0.000 kW Capacity control variable For air-to-water heat pumps: Rated air flow rate, outdoors - 4650 n Sound power level, indoors/outdoors ^L WA - dB For water-or brine-to-water heat pumps: Rated air flow rate, outdoor heat exchanger - - m ³ /h For heat pump combination heater: - dB Water heating energy efficiency ⁿ uh 130 0 Capacity consumption Gec 6.026 kWh Daily fuel consumption Gues 477.15 0	Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	· ·				
Diff mode Port 0.014 kW Standby mode Pab 0.014 kW Phermostat-off mode Pio 0.024 kW Thermostat-off mode Pio 0.024 kW Crankcase heater mode Pick 0.000 kW Dither items Capacity control Variable For air-to-water heat pumps: Rated air flow rate, outdoor s - 4650 n Sound power level, indoors/outdoors ^L WA - dB For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - - m ³ /h Sound power level, indoors/outdoors ^L WA - dB Meter heating energy efficiency n_wh 130 0 Cor heat pump combination heater: Declared load profile XL Water heating energy efficiency n_wh 130 0 Daily electricity consumption Quece 6.026 kWh Daily fuel consumption AFC 300 0	Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	51	°C				
Standby modePsb0.014kWRated heat output (**)Psup6.59kWThermostat-off modePto0.024kWType of energy inputElectricalCrankcase heater modePok0.000kWType of energy inputElectricalOther itemsSound power level, indoors/outdoorsLWA-dBFor air-to-water heat pumps: Rated air flow rate, outdoor heat exchanger-4650nSound power level, indoors/outdoorsLWA-dBFor water-or brine-to-water heat pumps: Rated air flow rate, outdoor heat exchanger-4650nAnnual energy consumptiononergoKWhMater heating energy efficiencyn_wh1300Sound power level, indoors/outdoorsLWA6.026kWhMater heating energy efficiencyn_wh1300Sound power level, indoors/outdoorsOnergo6.026kWhAnnual fuel consumption04FC3000	ower consumption in modes other than active	e mode			Supplementary heater							
Standby mode Psb 0.014 kW Thermostat-off mode Pto 0.024 kW Trankcase heater mode Pdk 0.000 kW Other items Pro 0.000 kW Capacity control variable For air-to-water heat pumps: Rated air flow rate, outdoors - 4650 n Sound power level, indoors/outdoors LWA - dB for water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - - m'/h For heat pump combination heater: Peclared load profile XL Water heating energy efficiency n_wh 130 0 Daily electricity consumption AEC 1288 kWh Annual fuel consumption AFC 300 0	Dff mode	Poff	0.014	kW								
Crankcase heater mode Pok 0.000 kW Operations of the pumps: Rated air flow rate, outdoor seater mode Annual energy consumption Annual energy consumption Image: Consumption Annual energy consumption Image: Consumption Mathematical consumption Mathmathmatical consumption Mathe	Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	6.59	kW				
Other items For air-to-water heat pumps: Rated air flow rate, outdoors - 4650 m Sound power level, indoors/outdoors I/WA - dB For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - 4650 m Annual energy consumption $^{\circ}_{HE}$ 9309 kWh For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - - m ³ /h For heat pump combination heater: - - Water heating energy efficiency $^{\circ}_{wh}$ 130 9 Daily electricity consumption $^{\circ}_{clec}$ 6.026 kWh Daily fuel consumption $^{\circ}_{fuel}$ 47.15 $^{\circ}_{nnual fuel consumption}$	Thermostat-off mode	Pto	0.024	kW	Type of energy input	Electrical						
Capacity control variable For air-to-water heat pumps: Rated air flow rate, outdoors 1 4650 m Sound power level, indoors/outdoors LWA dB dB For water-or brine-to-water heat pumps: Rated air flow rate, outdoor heat exchanger - 4650 m Annual energy consumption ° HE 9309 kWh - M - m³/h For heat pump combination heater: Variable Variable Variable Variable Variable Variable Main of the test pumps: Rated air flow rate, outdoor heat exchanger - 4650 m³/h For heat pump combination heater: - - - - - m³/h Daily electricity consumption ° - 6.026 kWh Annual fuel consumption ° - 47.15 ° Annual electricity consumption AEC 1288 kWh Annual fuel consumption AFC 300 -	Crankcase heater mode	Рск	0.000	kW								
Capacity control variable For air-to-water heat pumps: Rated air flow rate, outdoors 1 4650 m Sound power level, indoors/outdoors ^L WA dB dB For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger - 4650 m Annual energy consumption °HE 9309 kWh - Water heating energy efficiency - - m³/h For heat pump combination heater: Variable Variable Variable Water heating energy efficiency °u,m 130 O Daily electricity consumption °dec 6.026 kWh Annual fuel consumption °dec 4000 - 0 0 0 Munual electricity consumption AEC 1288 kWh Annual fuel consumption AFC 300 0 0												
Sound power level, indoors/outdoors LwA dB outdoors For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger Im³/h Annual energy consumption $^{\circ}_{HE}$ 9309 kWh Im³/h Im³/h Sound power level, indoors/outdoors $^{\circ}_{HE}$ 9309 kWh Im³/h Im³/h Annual energy consumption $^{\circ}_{HE}$ 9309 kWh Im³/h Im³/h Sound power level, indoors/outdoors $^{\circ}_{HE}$ 9309 kWh Im³/h							_	_				
Image: Section of the section of t	Capacity control		variable			-	4650	m³/ł				
Image: Section of the section of t	Sound power level, indoors/outdoors	LWA			For water-or brine-to-water heat pumps: Rated							
Mater heating energy efficiency nwh 130 Daily electricity consumption $^{\circ}_{clec}$ 6.026 kWh Daily fuel consumption $^{\circ}_{fuel}$ 47.15 $^{\circ}_{olec}$ Annual electricity consumption AEC 1288 kWh Annual fuel consumption AFC 300	•		-		brine or water flow rate, outdoor heat exchanger	-	-	m³/h				
Declared load profile XL Water heating energy efficiency n_wh 130 0 Daily electricity consumption ^o _{clec} 6.026 kWh Daily fuel consumption ^o _{fuel} 47.15 • Annual electricity consumption AEC 1288 kWh Annual fuel consumption AFC 300	Annual energy consumption	QHE	9309	kWh								
Value Value Value Value Number of the string energy efficiency Number of the string energy e	or heat pump combination heater											
Daily electricity consumption $^{\circ}_{clec}$ 6.026 kWh Nnnual electricity consumption AEC 1288 kWh			XI		Water heating energy efficiency	ημμ	130	%				
Annual electricity consumption AEC 1288 kWh Annual fuel consumption AFC 300		Q _{cloc}		kWh				°C				
							300	L				
Contact details		RIELLO S.p.A	Via Ing. Pila	ade Riello 7 -	Legnago - ITALY							

Model(s):				A2WHPR32M/016			
Air-to-water heat pump:				YES			
Water-to-water heat pump:				NO			
Brine-to-water heat pump:				NO			
Low-temperature heat pump:				NO			
Equipped with a supplementary heater:				NO			
Heat pump combination heater:				YES			
Declared climate condition:				WARMER			
Parameters are declared for medium-te	mperature applic	ation.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	ηs	176.1	%
Declared capacity for heating for part load at in remperature Tj	idoor temperature 2	20 °C and outdoo	or	Declared coefficient of performance or primary en temperature 20 °C and outdoor temperature Tj	ergy ratio for part	load at indoor	<u> </u>
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
у Тј = 2°С	Pdh	13.38	kW	$T_j = 2^{\circ}C$	COPd	2.29	-
Tj = 7°C	Pdh	8.86	kW	Tj = 7°C	COPd	3.84	-
Tj = 12°C	Pdh	4.06	kW	Tj = 12°C	COPd	5.86	-
Tj = bivalent temperature	Pdh	8.86	kW	Tj = bivalent temperature	COPd	3.84	<u> </u>
Tj = operating limit	Pdh	13.38	kW	Tj = operating limit	COPd	2.29	<u> </u>
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	· ·
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	<u> </u>
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active	e mode			Supplementary heater			-
Off mode	Poff	0.014	kW		_		
Standby mode	Psb	0.014	kW	Rated heat output (**)	Psup	0.42	kW
Thermostat-off mode	Pto	0.024	kW	Type of energy input	EI	ectrical	
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control		variable			-	4.65.0	m³/h
.				-		4650	L
Sound power level, indoors/outdoors	Lwa .	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q _{HE}	4112	kWh				
For heat pump combination heater:							
Declared load profile		XL		Water heating energy efficiency	η _{wh}	130	%
Daily electricity consumption	Qclec	6.026	kWh	Daily fuel consumption	Q _{fuel}	47.15	°C
Annual electricity consumption	AEC	1288	kWh	Annual fuel consumption	AFC	300	L
Contact details	RIELLO S.p.	.A Via Ing. Pila	ide Riello 7	- Legnago - ITALY			
(*) For heat pump space heaters and he heat output of a supplementary heater F (**) If Cdh is not determined by measure	Psup is equal to t	he supplemer	ntary capao		for heating Pde	signh, and th	ne rated